



CURA 85 CON Sequence Listing 08\_30\_2004  
SEQUENCE LISTING

<110> Prayaga, Sudhirdas K  
Taupier Jr, Raymond J  
Bandaru, Raj

<120> NOVEL POLYPEPTIDES AND POLYNUCLEOTIDES ENCODING SAME

<130> Cura 85 CON

<140> 10/691,165

<141> 2003-10-21

<150> 09/689,486

<151> 2000-10-12

<150> 60/159,805

<151> 1999-10-15

<150> 60/159,992

<151> 1999-10-18

<150> 60/160,952

<151> 1999-10-22

<160> 64

<170> PatentIn Ver. 2.1

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<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (61)..(234)

<400> 1

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Met Ala Asp Lys Pro Asp Ile Gly Glu Ile Ala Ser Phe Asn Lys Ala
  1             5             10             15

aag ctg aag aaa aca gag atg cag gag aac acc ctg ctg acc aaa gag 156
Lys Leu Lys Lys Thr Glu Met Gln Glu Asn Thr Leu Leu Thr Lys Glu
          20             25             30

gcc att gag cag gag aag cgg gtg aaa ttt cct aag agc ctg gag gat 204
Ala Ile Glu Gln Glu Lys Arg Val Lys Phe Pro Lys Ser Leu Glu Asp
          35             40             45

tcc cta ccc ctg tca tct tcg aga ccc cag tagtaatgtg gaggaagaat 254
Ser Leu Pro Leu Ser Ser Ser Arg Pro Gln
  50             55

caccacaaga tggacacaag ccacaaactg tgacgtgaac ctgggcactc cgtgctgatg 314
ccaccagcct gaggggtccct atgggtccaa tcagactgcc aaattctctg gtttgccctg 374
ggatattata gaaaattatt tgcgtgaata atgaaaacac agctcatggc aaaaaa 430
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<210> 2  
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 <212> PRT  
 <213> Homo sapiens

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 Lys Leu Lys Lys Thr Glu Met Gln Glu Asn Thr Leu Leu Thr Lys Glu  
                   20                  25                  30  
 Ala Ile Glu Gln Glu Lys Arg Val Lys Phe Pro Lys Ser Leu Glu Asp  
           35                  40                  45  
 Ser Leu Pro Leu Ser Ser Ser Arg Pro Gln  
   50                  55

<210> 3  
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 <212> PRT  
 <213> Homo sapiens

<400> 3  
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<210> 4  
 <211> 3018  
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 <213> Homo sapiens

<400> 4  
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 cacggggact ggggctggct cacgtatccg gctcatgggt gggactccat caacgaggtg 180  
 gacgagtcct tccagcccat ccacacgtac caggtttgca acgtcatgag cccaaccag 240  
 aacaactggc tgcgcacgag ctgggtcccc cgagacggcg cccggcgcg tctatgctgag 300  
 atcaagttaa ccctgcgcga ctgcaacagc atgcctgggt tgctgggcac ctgcaaggag 360  
 acctcaacc tctactacct ggagtcggag cgcgacctgg gggccagcac acaagaaagc 420  
 cagttcctca aaatcgacac cattgcggcc gacgagagct tcacaggtgc cgaccttgg 480  
 gtgcggcgtc tcaagctcaa cacggagggt cgcagtgtgg gtccccctcag caagcgcggc 540  
 ttctacctgg ccttccagga catagggtgcc tgcctggcca tcctctctct ccgcatctac 600  
 tataagaagt gccctgccat ggtgcgcaat ctggctgcct tctcggaggc agtgacgggg 660  
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 aacctgctgg cccacatgaa ctactccttc tggatcgagg ccgtcaatgg cgtgtccgac 1260  
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 gacaaggaga tgcagagcta ctccaccctc aaggccgtca ccaccagagc caccgtctcc 1500  
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ggccgcttca gccaggccat ggagggtggag accgggaaac cccggccccg ctatgacacc 1620
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ccgggaaagc tcccagagcc ccagttctat gcggaacccc acacctacga ggagccaggc 1860
cgggcgggcc gcagtttcac tcgggagatc gaggcctcta ggatccacat cgagaaaatc 1920
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gatgtgcccg tggccatcaa ggccctcaa gccggctaca cggagagaca gaggcgggac 2040
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ggtgtcgtca cccgtggccg cctggcaatg attgtgactg agtacatgga gaacggctct 2160
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ctctcacggg tgctggagga cgaccgggat gctgcctaca ccaccacggg cgggaagatc 2400
cccatccgct ggacggcccc agaggccat gccttccgca ccttctcctc ggccagcgac 2460
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aacatgacca accgggatgt gatcagctct gtggaggagg ggtaccgcct gcccgcaccc 2580
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cagcggcctc gcttctccca gattgtcagt gtcctcgatg cgctcatccg cagccctgag 2700
agtctcagg ccaccgccac agtcagcagg tgccccaccc ctgccttcgt ccggagctgc 2760
tttgacctc gagggggcag cggtgccgtt gggggccctca ccgtggggga ctggctggag 2820
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atggtgctac gcatgaacgc ccaggacgtg cgcgccttgg gcatcacct catgggccac 2940
cagaagaaga tcctgggcag cattcagacc atgcgggccc agctgaccag caccagggg 3000
ccccgccgc acctctga 3018

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&lt;210&gt; 5

&lt;211&gt; 992

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 5

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Ala Ala Ala Ala Ala Thr Cys Val Ser Ala Ala Arg Gly Glu Val
      20              25              30
Asn Leu Leu Asp Thr Ser Thr Ile His Gly Asp Trp Gly Trp Leu Thr
      35              40              45
Tyr Pro Ala His Gly Trp Asp Ser Ile Asn Glu Val Asp Glu Ser Phe
      50              55              60
Gln Pro Ile His Thr Tyr Gln Val Cys Asn Val Met Ser Pro Asn Gln
      65              70              75              80
Asn Asn Trp Leu Arg Thr Ser Trp Val Pro Arg Asp Gly Ala Arg Arg
      85              90              95
Val Tyr Ala Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Met Pro
      100              105              110
Gly Val Leu Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Leu Glu
      115              120              125
Ser Asp Arg Asp Leu Gly Ala Ser Thr Gln Glu Ser Gln Phe Leu Lys
      130              135              140
Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gly Ala Asp Leu Gly
      145              150              155              160

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Val Arg Arg Leu Lys Leu Asn Thr Glu Val Arg Ser Val Gly Pro Leu  
 165 170 175  
 Ser Lys Arg Gly Phe Tyr Leu Ala Phe Gln Asp Ile Gly Ala Cys Leu  
 180 185 190  
 Ala Ile Leu Ser Leu Arg Ile Tyr Tyr Lys Lys Cys Pro Ala Met Val  
 195 200 205  
 Arg Asn Leu Ala Ala Phe Ser Glu Ala Val Thr Gly Ala Asp Ser Ser  
 210 215 220  
 Ser Leu Val Glu Val Arg Gly Gln Cys Val Arg His Ser Glu Glu Arg  
 225 230 235 240  
 Asp Thr Pro Lys Met Tyr Cys Ser Ala Glu Gly Glu Trp Leu Val Pro  
 245 250 255  
 Ile Gly Lys Cys Val Cys Ser Ala Gly Tyr Glu Glu Arg Arg Asp Ala  
 260 265 270  
 Cys Val Ala Cys Glu Leu Gly Phe Tyr Lys Ser Ala Pro Gly Asp Gln  
 275 280 285  
 Leu Cys Ala Arg Cys Pro Pro His Ser His Ser Ala Ala Pro Ala Ala  
 290 295 300  
 Gln Ala Cys His Cys Asp Leu Ser Tyr Tyr Arg Ala Ala Leu Asp Pro  
 305 310 315 320  
 Pro Ser Ser Ala Cys Thr Arg Pro Pro Ser Ala Pro Val Asn Leu Ile  
 325 330 335  
 Ser Ser Val Asn Gly Thr Ser Val Thr Leu Glu Trp Ala Pro Pro Leu  
 340 345 350  
 Asp Pro Gly Gly Arg Ser Asp Ile Thr Tyr Asn Ala Val Cys Arg Arg  
 355 360 365  
 Cys Pro Trp Ala Leu Ser Arg Cys Glu Ala Cys Gly Ser Gly Thr Arg  
 370 375 380  
 Phe Val Pro Gln Gln Thr Ser Leu Val Gln Ala Ser Leu Leu Val Ala  
 385 390 395 400  
 Asn Leu Leu Ala His Met Asn Tyr Ser Phe Trp Ile Glu Ala Val Asn  
 405 410 415  
 Gly Val Ser Asp Leu Ser Pro Glu Pro Arg Arg Ala Ala Val Val Asn  
 420 425 430  
 Ile Thr Thr Asn Gln Ala Ala Pro Ser Gln Val Val Val Ile Arg Gln  
 435 440 445  
 Glu Arg Ala Gly Gln Thr Ser Val Ser Leu Leu Trp Gln Glu Pro Glu  
 450 455 460  
 Gln Pro Asn Gly Ile Ile Leu Glu Tyr Glu Ile Lys Tyr Tyr Glu Lys  
 465 470 475 480  
 Asp Lys Glu Met Gln Ser Tyr Ser Thr Leu Lys Ala Val Thr Thr Arg  
 485 490 495

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Ala Thr Val Ser Gly Leu Lys Pro Gly Thr Arg Tyr Val Phe Gln Val  
 500 505 510  
 Arg Ala Arg Thr Ser Ala Gly Cys Gly Arg Phe Ser Gln Ala Met Glu  
 515 520 525  
 Val Glu Thr Gly Lys Pro Arg Pro Arg Tyr Asp Thr Arg Thr Ile Val  
 530 535 540  
 Trp Ile Cys Leu Thr Leu Ile Thr Gly Leu Val Val Leu Leu Leu Leu  
 545 550 555 560  
 Leu Ile Cys Lys Lys Arg His Cys Gly Tyr Ser Lys Ala Phe Gln Asp  
 565 570 575  
 Ser Asp Glu Glu Lys Met His Tyr Gln Asn Gly Gln Ala Pro Pro Pro  
 580 585 590  
 Val Phe Leu Pro Leu His His Pro Pro Gly Lys Leu Pro Glu Pro Gln  
 595 600 605  
 Phe Tyr Ala Glu Pro His Thr Tyr Glu Glu Pro Gly Arg Ala Gly Arg  
 610 615 620  
 Ser Phe Thr Arg Glu Ile Glu Ala Ser Arg Ile His Ile Glu Lys Ile  
 625 630 635 640  
 Ile Gly Ser Gly Asp Ser Gly Glu Val Cys Tyr Gly Arg Leu Arg Val  
 645 650 655  
 Pro Gly Gln Arg Asp Val Pro Val Ala Ile Lys Ala Leu Lys Ala Gly  
 660 665 670  
 Tyr Thr Glu Arg Gln Arg Arg Asp Phe Leu Ser Glu Ala Ser Ile Met  
 675 680 685  
 Gly Gln Phe Asp His Pro Asn Ile Ile Arg Leu Glu Gly Val Val Thr  
 690 695 700  
 Arg Gly Arg Leu Ala Met Ile Val Thr Glu Tyr Met Glu Asn Gly Ser  
 705 710 715 720  
 Leu Asp Thr Phe Leu Arg Thr His Asp Gly Gln Phe Thr Ile Met Gln  
 725 730 735  
 Leu Val Gly Met Leu Arg Gly Val Gly Ala Gly Met Arg Tyr Leu Ser  
 740 745 750  
 Asp Leu Gly Tyr Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Val  
 755 760 765  
 Asp Ser Asn Leu Val Cys Lys Val Ser Asp Phe Gly Leu Ser Arg Val  
 770 775 780  
 Leu Glu Asp Asp Pro Asp Ala Ala Tyr Thr Thr Thr Gly Gly Lys Ile  
 785 790 795 800  
 Pro Ile Arg Trp Thr Ala Pro Glu Ala Ile Ala Phe Arg Thr Phe Ser  
 805 810 815  
 Ser Ala Ser Asp Val Trp Ser Phe Gly Val Val Met Trp Glu Val Leu  
 820 825 830

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Ala Tyr Gly Glu Arg Pro Tyr Trp Asn Met Thr Asn Arg Asp Val Ile  
835 840 845

Ser Ser Val Glu Glu Gly Tyr Arg Leu Pro Ala Pro Met Gly Cys Pro  
850 855 860

His Ala Leu His Gln Leu Met Leu Asp Cys Trp His Lys Asp Arg Ala  
865 870 875 880

Gln Arg Pro Arg Phe Ser Gln Ile Val Ser Val Leu Asp Ala Leu Ile  
885 890 895

Arg Ser Pro Glu Ser Leu Arg Ala Thr Ala Thr Val Ser Arg Cys Pro  
900 905 910

Pro Pro Ala Phe Val Arg Ser Cys Phe Asp Leu Arg Gly Gly Ser Gly  
915 920 925

Gly Gly Gly Gly Leu Thr Val Gly Asp Trp Leu Asp Ser Ile Arg Met  
930 935 940

Gly Arg Tyr Arg Asp His Phe Ala Ala Gly Gly Tyr Ser Ser Leu Gly  
945 950 955 960

Met Val Leu Arg Met Asn Ala Gln Asp Val Arg Ala Leu Gly Ile Thr  
965 970 975

Leu Met Gly His Gln Lys Lys Ile Leu Gly Ser Ile Gln Thr Met Arg  
980 985 990

<210> 6  
<211> 2025  
<212> DNA  
<213> Homo sapiens

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ctcatcgct tcctgacgga ggatcatcgac agcaccacct gcccctcggg gtgccgctgc 180  
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gatgatgcca ccaccctcta cctgcagaac aaccagatca acaacgccgg catccccag 300  
gacctcaaga ccaagggtcaa cgtgcaggtc atctacctat acgagaatga cctggatgag 360  
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atggagtcag ggaccaagaa ggataactcc atcctggaaa tccgcggccc tgggctgcag 1860
atgctgcccc tcaaccgta ccgcgccaaa gaggagtacg tgggtccacac tatcttcccc 1920
tccaacggca gcagcctctg caaggccaca cacaccattg gctacggcac cacgcggggc 1980
taccgggacg gcggcatccc cgacatagac tactcctaca catga 2025

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&lt;210&gt; 7

&lt;211&gt; 674

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 7

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Met Val Val Ala His Pro Thr Ala Thr Ala Thr Thr Thr Pro Thr Ala
 1          5          10          15
Thr Val Thr Ala Thr Val Val Met Thr Thr Ala Thr Met Asp Leu Arg
 20          25          30
Asp Trp Leu Phe Leu Cys Tyr Gly Leu Ile Ala Phe Leu Thr Glu Val
 35          40          45
Ile Asp Ser Thr Thr Cys Pro Ser Val Cys Arg Cys Asp Asn Gly Phe
 50          55          60
Ile Tyr Cys Asn Asp Arg Gly Leu Thr Ser Ile Pro Ala Asp Ile Pro
 65          70          75          80
Asp Asp Ala Thr Thr Leu Tyr Leu Gln Asn Asn Gln Ile Asn Asn Ala
 85          90          95
Gly Ile Pro Gln Asp Leu Lys Thr Lys Val Asn Val Gln Val Ile Tyr
100          105          110
Leu Tyr Glu Asn Asp Leu Asp Glu Phe Pro Ile Asn Leu Pro Arg Ser
115          120          125
Leu Arg Glu Leu His Leu Gln Asp Asn Asn Val Arg Thr Ile Ala Arg
130          135          140
Asp Ser Leu Ala Arg Ile Pro Leu Leu Glu Lys Leu His Leu Asp Asp
145          150          155          160
Asn Ser Val Ser Thr Val Ser Ile Glu Glu Asp Ala Phe Ala Asp Ser
165          170          175
Lys Gln Leu Lys Leu Leu Phe Leu Ser Arg Asn His Leu Ser Ser Ile
180          185          190
Pro Ser Gly Leu Pro His Thr Leu Glu Glu Leu Arg Leu Asp Asp Asn
195          200          205
Arg Ile Ser Thr Ile Pro Leu His Ala Phe Lys Gly Leu Asn Ser Leu
210          215          220
Arg Arg Leu Val Leu Asp Gly Asn Leu Leu Ala Asn Gln Arg Ile Ala
225          230          235          240

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Asp	Asp	Thr	Phe	Ser 245	Arg	Leu	Gln	Asn	Leu 250	Thr	Glu	Leu	Ser	Leu 255	Val
Arg	Asn	Ser	Leu 260	Ala	Ala	Pro	Pro	Leu 265	Asn	Leu	Pro	Ser	Ala 270	His	Leu
Gln	Lys	Leu 275	Tyr	Leu	Gln	Asp	Asn 280	Ala	Ile	Ser	His	Ile 285	Pro	Tyr	Asn
Thr	Leu 290	Ala	Lys	Met	Arg	Glu 295	Leu	Glu	Arg	Leu	Asp 300	Leu	Ser	Asn	Asn
Asn 305	Leu	Thr	Thr	Leu	Pro 310	Arg	Gly	Leu	Phe	Asp 315	Asp	Leu	Gly	Asn	Leu 320
Ala	Gln	Leu	Leu	Leu 325	Arg	Asn	Asn	Pro	Trp 330	Phe	Cys	Gly	Cys	Asn 335	Leu
Met	Trp	Leu	Arg 340	Asp	Trp	Val	Lys	Ala 345	Arg	Ala	Ala	Val	Val 350	Asn	Val
Arg	Gly	Leu 355	Met	Cys	Gln	Gly	Pro 360	Glu	Lys	Val	Arg	Gly 365	Met	Ala	Ile
Lys	Asp 370	Ile	Thr	Ser	Glu	Met 375	Asp	Glu	Cys	Phe	Glu 380	Thr	Gly	Pro	Gln
Gly 385	Gly	Val	Ala	Asn	Ala 390	Ala	Ala	Lys	Thr	Thr 395	Ala	Ser	Asn	His	Ala 400
Ser	Ala	Thr	Thr	Pro 405	Gln	Gly	Ser	Leu	Phe 410	Thr	Leu	Lys	Ala	Lys 415	Arg
Pro	Gly	Leu	Arg 420	Leu	Pro	Asp	Ser	Asn 425	Ile	Asp	Tyr	Pro	Met 430	Ala	Thr
Gly	Asp	Gly 435	Ala	Lys	Thr	Leu	Ala 440	Ile	His	Val	Lys	Ala 445	Leu	Thr	Ala
Asp	Ser 450	Ile	Arg	Ile	Thr	Trp 455	Lys	Ala	Thr	Leu	Pro 460	Ala	Ser	Ser	Phe
Arg 465	Leu	Ser	Trp	Leu	Arg 470	Leu	Gly	His	Ser	Pro 475	Ala	Val	Gly	Ser	Ile 480
Thr	Glu	Thr	Leu	Val 485	Gln	Gly	Asp	Lys	Thr 490	Glu	Tyr	Leu	Leu	Thr 495	Ala
Leu	Glu	Pro	Lys 500	Ser	Thr	Tyr	Ile	Ile 505	Cys	Met	Val	Thr	Met 510	Glu	Thr
Ser	Asn	Ala 515	Tyr	Val	Ala	Asp	Glu 520	Thr	Pro	Val	Cys	Ala 525	Lys	Ala	Glu
Thr	Ala 530	Asp	Ser	Tyr	Gly	Pro 535	Thr	Thr	Thr	Leu	Asn 540	Gln	Glu	Gln	Asn
Ala 545	Gly	Pro	Met	Ala	Ser 550	Leu	Pro	Leu	Ala	Gly 555	Ile	Ile	Gly	Gly	Ala 560
Val	Ala	Leu	Val	Phe 565	Leu	Phe	Leu	Val	Leu 570	Gly	Ala	Ile	Cys	Trp 575	Tyr



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Val His Gln Ala Gly Glu Leu Leu Thr Arg Glu Arg Ala Tyr Asn Arg  
580 585 590  
Gly Ser Arg Lys Lys Asp Asp Tyr Met Glu Ser Gly Thr Lys Lys Asp  
595 600 605  
Asn Ser Ile Leu Glu Ile Arg Gly Pro Gly Leu Gln Met Leu Pro Ile  
610 615 620  
Asn Pro Tyr Arg Ala Lys Glu Glu Tyr Val Val His Thr Ile Phe Pro  
625 630 635 640  
Ser Asn Gly Ser Ser Leu Cys Lys Ala Thr His Thr Ile Gly Tyr Gly  
645 650 655  
Thr Thr Arg Gly Tyr Arg Asp Gly Gly Ile Pro Asp Ile Asp Tyr Ser  
660 665 670  
Tyr Thr

<210> 8  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Ag190 Forward  
PCR Primer Sequence

<400> 8  
tggaggaaga atcaccacaa ga 22

<210> 9  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Ag190 Probe  
PCR Primer Sequence

<400> 9  
caagccacaa actgtgacgt gaacctg 27

<210> 10  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Ag190 Reverse  
PCR Primer Sequence

<400> 10  
gtggcatcag cacggagtg 19

<210> 11

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<211> 20  
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 <213> Artificial Sequence  
  
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 <223> Description of Artificial Sequence: Ag087 Forward  
 PCR Primer Sequence  
  
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 <220>  
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 PCR Primer Sequence  
  
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 <210> 13  
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 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Ag087 Reverse  
 PCR Primer Sequence  
  
 <400> 13  
 agcagacttc cccggagtct 20  
  
 <210> 14  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: NOV2 Forward  
 PCR Primer Sequence  
  
 <400> 14  
 ggatccgcg gcggcgaagt gaatttgctg g 31  
  
 <210> 15  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: NOV2 Reverse  
 PCR Primer Sequence  
  
 <400> 15  
 ctcgaggggc ctggtgtcat agcggggcc 29

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<210> 16  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: NOV2 S1 PCR  
         Primer Sequence  
  
 <400> 16  
 tacctggagt cggaccgc 18  
  
 <210> 17  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: NOV2 S2 PCR  
         Primer Sequence  
  
 <400> 17  
 gcggtccgac tccaggta 18  
  
 <210> 18  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: NOV2 S3 PCR  
         Primer Sequence  
  
 <400> 18  
 cagtgcgtgc ggcactcag 19  
  
 <210> 19  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: NOV2 S4 PCR  
         Primer Sequence  
  
 <400> 19  
 tgagtgccgc acgcactgg 19  
  
 <210> 20  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: NOV2 S5 PCR  
         Primer Sequence  
  
 <400> 20

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ctggaccag gtggccgc 18

<210> 21  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: NOV2 S6 PCR  
 Primer Sequence

<400> 21  
 gcggccacct ggggccag 18

<210> 22  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: NOV2 S7 PCR  
 Primer Sequence

<400> 22  
 cccgagcagc cgaacggc 18

<210> 23  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: NOV2 S8 PCR  
 Primer Sequence

<400> 23  
 gccgttcggc tgctcggg 18

<210> 24  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: NOV3 Forward  
 PCR Primer Sequence

<400> 24  
 ggatccacca cctgcccctc ggtgtgc 27

<210> 25  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: NOV3 Reverse  
 PCR Primer Sequence

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<400> 25  
ctcgaggcca gcgttctgct cctgggttgag tgtgg 35

<210> 26  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: NOV3 S1 PCR  
Primer Sequence

<400> 26  
cgcaccattg ccagggac 18

<210> 27  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: NOV3 S2 PCR  
Primer Sequence

<400> 27  
gtccctggca atggtgcg 18

<210> 28  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: NOV3 S3 PCR  
Primer Sequence

<400> 28  
ctggtgca attcgctggc c 21

<210> 29  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: NOV3 S4 PCR  
Primer Sequence

<400> 29  
ggccagcgaa ttgcgcacca g 21

<210> 30  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>

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<223> Description of Artificial Sequence: NOV3 S5 PCR  
Primer Sequence

<400> 30  
cacgcctctg ccaccacg 18

<210> 31  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: NOV3 S6 PCR  
Primer Sequence

<400> 31  
cgtggtggca gaggcgtg 18

<210> 32  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: pSec-V5 His  
Forward Oligonucleotide Primer Sequence

<400> 32  
ctcgtcctcg agggtaagcc tatccctaac 30

<210> 33  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: pSec-V5 His  
Reverse Oligonucleotide Primer Sequence

<400> 33  
ctcgtcgggc ccctgatcag cgggtttaa c 31

<210> 34  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 34  
Met Ala Asp Lys Pro Asp Met Gly Glu Ile Ala Ser Phe Asp Lys Ala  
1 5 10 15  
Lys Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Thr Leu Pro Thr Lys  
20 25 30  
Glu Thr Ile Glu Gln Glu Lys Arg  
35 40

<210> 35

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<211> 10

<212> PRT

<213> Homo sapiens

<400> 35

Lys Leu Lys Lys Thr Glu Thr Gln Glu Asn  
1 5 10

<210> 36

<211> 38

<212> PRT

<213> Homo sapiens

<400> 36

Ala Asp Lys Pro Asp Met Gly Glu Ile Ala Ser Phe Asp Lys Ala Lys  
1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Thr Leu Pro Thr Lys Glu  
20 25 30

Thr Ile Glu Gln Glu Lys  
35

<210> 37

<211> 40

<212> PRT

<213> Bos taurus

<400> 37

Ala Asp Lys Pro Asp Leu Gly Glu Ile Asn Ser Phe Asp Lys Ala Lys  
1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Thr Leu Pro Thr Lys Glu  
20 25 30

Thr Ile Glu Gln Glu Lys Gln Ala  
35 40

<210> 38

<211> 40

<212> PRT

<213> Sus scrofa

<400> 38

Ala Asp Lys Pro Asp Met Gly Glu Ile Asn Ser Phe Asp Lys Ala Lys  
1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Thr Leu Pro Thr Lys Glu  
20 25 30

Thr Ile Glu Gln Glu Lys Gln Ala  
35 40

<210> 39

<211> 40

<212> PRT

<213> Homo sapiens

<400> 39

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Ser Asp Lys Pro Asp Met Ala Glu Ile Glu Lys Phe Asp Lys Ser Lys  
 1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys Glu  
 20 25 30

Thr Ile Glu Gln Glu Lys Gln Ala  
 35 40

<210> 40  
 <211> 41  
 <212> PRT  
 <213> Mus musculus

<400> 40  
 Met Ser Asp Lys Pro Asp Met Ala Glu Ile Glu Lys Phe Asp Lys Ser  
 1 5 10 15

Lys Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys  
 20 25 30

Glu Thr Ile Glu Gln Glu Lys Gln Ala  
 35 40

<210> 41  
 <211> 40  
 <212> PRT  
 <213> Oryctolagus cuniculus

<400> 41  
 Ala Asp Lys Pro Asp Met Ala Glu Ile Glu Lys Phe Asp Lys Ser Lys  
 1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys Glu  
 20 25 30

Thr Ile Glu Gln Glu Lys Gln Ala  
 35 40

<210> 42  
 <211> 39  
 <212> PRT  
 <213> Xenopus laevis

<400> 42  
 Ser Asp Lys Pro Asp Met Ala Glu Ile Glu Lys Phe Asp Lys Ala Lys  
 1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys Glu  
 20 25 30

Thr Ile Glu Gln Glu Lys Gln  
 35

<210> 43  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens



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<400> 43

Ser Asp Lys Pro Gly Met Ala Glu Ile Glu Lys Phe Asp Lys Ser Lys  
1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Ser Ser Lys Glu  
20 25 30

Thr Ile Glu Gln Glu Arg Gln Ala  
35 40

<210> 44

<211> 40

<212> PRT

<213> Oncorhynchus mykiss

<400> 44

Ser Asp Lys Pro Asn Leu Glu Glu Val Ala Ser Phe Asp Lys Thr Lys  
1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Thr Lys Glu  
20 25 30

Thr Ile Glu Gln Glu Lys Gln Ala  
35 40

<210> 45

<211> 40

<212> PRT

<213> Oncorhynchus mykiss

<400> 45

Ser Asp Lys Pro Asp Leu Ala Glu Val Ser Asn Phe Asp Lys Thr Lys  
1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Thr Lys Glu  
20 25 30

Thr Ile Glu Gln Glu Lys Gln Ala  
35 40

<210> 46

<211> 40

<212> PRT

<213> Lateolabrax japonicus

<400> 46

Ser Asp Lys Pro Asp Ile Ser Glu Val Thr Ser Phe Asp Lys Thr Lys  
1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Pro Leu Pro Ser Lys Glu  
20 25 30

Thr Ile Glu Gln Glu Lys Ala Ala  
35 40

<210> 47

<211> 39

<212> PRT

<213> Rattus norvegicus

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<400> 47

Met Ser Asp Lys Pro Asp Leu Ser Glu Val Glu Thr Phe Asp Lys Ser  
 1 5 10 15  
 Lys Leu Lys Lys Thr Asn Thr Glu Glu Lys Asn Thr Leu Pro Ser Lys  
 20 25 30  
 Glu Thr Ile Gln Gln Glu Lys  
 35

<210> 48

<211> 38

<212> PRT

<213> Homo sapiens

<400> 48

Ser Asp Lys Pro Asp Leu Ser Glu Val Glu Lys Phe Asp Arg Ser Lys  
 1 5 10 15  
 Leu Lys Lys Thr Asn Thr Glu Glu Lys Asn Thr Leu Pro Ser Lys Glu  
 20 25 30  
 Thr Ile Gln Gln Glu Lys  
 35

<210> 49

<211> 35

<212> PRT

<213> Drosophila melanogaster

<400> 49

Ile Ala Gly Ile Glu Asn Phe Asp Ala Lys Lys Leu Lys His Thr Glu  
 1 5 10 15  
 Thr Asn Glu Lys Asn Val Leu Pro Thr Lys Glu Val Ile Glu Ala Glu  
 20 25 30  
 Lys Gln Ala  
 35

<210> 50

<211> 31

<212> PRT

<213> Drosophila melanogaster

<400> 50

Gly Ile Thr Ala Phe Asn Gln Asn Asn Leu Lys His Thr Glu Thr Asn  
 1 5 10 15  
 Glu Lys Asn Pro Leu Pro Asp Lys Glu Ala Ile Glu Gln Glu Lys  
 20 25 30

<210> 51

<211> 38

<212> PRT

<213> Homo sapiens

<400> 51

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Ala Asp Lys Pro Asp Met Gly Glu Ile Ala Ser Phe Asp Lys Ala Lys  
 1 5 10 15

Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn Thr Leu Pro Thr Lys Glu  
 20 25 30

Thr Ile Glu Gln Glu Lys  
 35

<210> 52

<211> 991

<212> PRT

<213> Mus musculus

<400> 52

Met Ala Pro Ala Arg Ala Arg Leu Ser Pro Ala Leu Trp Val Val Thr  
 1 5 10 15

Ala Ala Ala Ala Ala Thr Cys Val Ser Ala Gly Arg Gly Glu Val Asn  
 20 25 30

Leu Leu Asp Thr Ser Thr Ile His Gly Asp Trp Gly Trp Leu Thr Tyr  
 35 40 45

Pro Ala His Gly Trp Asp Ser Ile Asn Glu Val Asp Glu Ser Phe Arg  
 50 55 60

Pro Ile His Thr Tyr Gln Val Cys Asn Val Met Ser Pro Asn Gln Asn  
 65 70 75 80

Asn Trp Leu Arg Thr Asn Trp Val Pro Arg Asp Gly Ala Arg Arg Val  
 85 90 95

Tyr Ala Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Ile Pro Gly  
 100 105 110

Val Leu Gly Thr Cys Lys Glu Thr Phe Asn Leu His Tyr Leu Glu Ser  
 115 120 125

Asp Arg Asp Leu Gly Ala Ser Thr Gln Glu Ser Gln Phe Leu Lys Ile  
 130 135 140

Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gly Ala Asp Leu Gly Val  
 145 150 155 160

Arg Arg Leu Lys Leu Asn Thr Glu Val Arg Gly Val Gly Pro Leu Ser  
 165 170 175

Lys Arg Gly Phe Tyr Leu Ala Phe Gln Asp Ile Gly Ala Cys Leu Ala  
 180 185 190

Ile Leu Ser Leu Arg Ile Tyr Tyr Lys Lys Cys Pro Ala Met Val Arg  
 195 200 205

Asn Leu Ala Ala Phe Ser Glu Ala Val Thr Gly Ala Asp Ser Ser Ser  
 210 215 220

Leu Val Glu Val Arg Gly Gln Cys Val Arg His Ser Glu Glu Arg Asp  
 225 230 235 240

Thr Pro Lys Met Tyr Cys Ser Ala Glu Gly Glu Trp Leu Val Pro Ile  
 245 250 255

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Gly Lys Cys Val Cys Ser Ala Gly Tyr Glu Glu Arg Arg Asp Ala Cys  
 260 265 270  
 Met Ala Cys Glu Leu Gly Phe Tyr Lys Ser Ala Pro Gly Asp Gln Leu  
 275 280 285  
 Cys Ala Arg Cys Pro Pro His Ser His Ser Ala Thr Pro Ala Ala Gln  
 290 295 300  
 Thr Cys Arg Cys Asp Leu Ser Tyr Tyr Arg Ala Ala Leu Asp Pro Pro  
 305 310 315 320  
 Ser Ala Ala Cys Thr Arg Pro Pro Ser Ala Pro Val Asn Leu Ile Ser  
 325 330 335  
 Ser Val Asn Gly Thr Ser Val Thr Leu Glu Trp Ala Pro Pro Leu Asp  
 340 345 350  
 Pro Gly Gly Arg Ser Asp Ile Thr Tyr Asn Ala Val Cys Arg Arg Cys  
 355 360 365  
 Pro Trp Ala Leu Ser His Cys Glu Ala Cys Gly Ser Gly Thr Arg Phe  
 370 375 380  
 Val Pro Gln Gln Thr Ser Leu Ala Gln Ala Ser Leu Leu Val Ala Asn  
 385 390 395 400  
 Leu Leu Ala His Met Asn Tyr Ser Phe Trp Ile Glu Ala Val Asn Gly  
 405 410 415  
 Val Ser Asn Leu Ser Pro Glu Pro Arg Ser Ala Ala Val Val Asn Ile  
 420 425 430  
 Thr Thr Asn Gln Ala Ala Pro Ser Gln Val Val Val Ile Arg Gln Glu  
 435 440 445  
 Arg Ala Gly Gln Thr Ser Val Ser Leu Leu Trp Gln Glu Pro Glu Gln  
 450 455 460  
 Pro Asn Gly Ile Ile Leu Glu Tyr Glu Ile Lys Tyr Tyr Glu Lys Asp  
 465 470 475 480  
 Lys Glu Met Gln Ser Tyr Ser Thr Leu Lys Ala Val Thr Thr Arg Ala  
 485 490 495  
 Thr Val Ser Gly Leu Lys Pro Gly Thr Arg Tyr Val Phe Gln Val Arg  
 500 505 510  
 Ala Arg Thr Ser Ala Gly Cys Gly Arg Phe Ser Gln Ala Met Glu Val  
 515 520 525  
 Glu Thr Gly Lys Pro Arg Pro Arg Tyr Asp Thr Arg Thr Ile Val Trp  
 530 535 540  
 Ile Cys Leu Thr Leu Ile Thr Gly Leu Val Val Leu Leu Leu Leu Leu  
 545 550 555 560  
 Ile Cys Lys Lys Arg His Cys Gly Tyr Ser Lys Ala Phe Gln Asp Ser  
 565 570 575  
 Asp Glu Glu Lys Met His Tyr Gln Asn Gly Gln Ala Pro Pro Pro Val  
 580 585 590

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Phe Leu Pro Leu Asn His Pro Pro Gly Lys Phe Pro Glu Thr Gln Phe  
 595 600 605  
 Ser Ala Glu Pro His Thr Tyr Glu Glu Pro Gly Arg Ala Gly Arg Ser  
 610 615 620  
 Phe Thr Arg Glu Ile Glu Ala Ser Arg Ile His Ile Glu Lys Ile Ile  
 625 630 635 640  
 Gly Ser Gly Glu Ser Gly Glu Val Cys Tyr Gly Arg Leu Gln Val Pro  
 645 650 655  
 Gly Gln Arg Asp Val Pro Val Ala Ile Lys Ala Leu Lys Ala Gly Tyr  
 660 665 670  
 Thr Glu Arg Gln Arg Gln Asp Phe Leu Ser Glu Ala Ala Ile Met Gly  
 675 680 685  
 Gln Phe Asp His Pro Asn Ile Ile Arg Leu Glu Gly Val Val Thr Arg  
 690 695 700  
 Gly Arg Leu Ala Met Ile Val Thr Glu Tyr Met Glu Asn Gly Ser Leu  
 705 710 715 720  
 Asp Ala Phe Leu Arg Thr His Asp Gly Gln Phe Thr Ile Val Gln Leu  
 725 730 735  
 Val Gly Met Leu Arg Gly Val Gly Ala Gly Met Arg Tyr Leu Ser Asp  
 740 745 750  
 Leu Gly Tyr Ile His Arg Asp Leu Ala Ala Arg Asn Val Leu Val Asp  
 755 760 765  
 Gly Arg Leu Val Cys Lys Val Ser Asp Phe Gly Leu Ser Arg Ala Leu  
 770 775 780  
 Glu Asp Asp Pro Glu Ala Ala Tyr Thr Thr Ala Gly Gly Lys Ile Pro  
 785 790 795 800  
 Ile Arg Trp Thr Ala Pro Glu Ala Ile Ala Phe Arg Thr Phe Ser Ser  
 805 810 815  
 Ala Ser Asp Val Trp Ser Phe Gly Val Val Met Trp Glu Val Leu Ala  
 820 825 830  
 Tyr Gly Glu Arg Pro Tyr Trp Asn Met Thr Asn Gln Asp Val Ile Ser  
 835 840 845  
 Ser Val Glu Glu Gly Tyr Arg Leu Pro Ala Pro Met Gly Cys Pro Arg  
 850 855 860  
 Ala Leu His Gln Leu Met Leu Asp Cys Trp His Lys Asp Arg Ala Gln  
 865 870 875 880  
 Arg Pro Arg Phe Ala His Val Val Ser Val Leu Asp Ala Leu Val His  
 885 890 895  
 Ser Pro Glu Ser Leu Arg Ala Thr Ala Thr Val Ser Arg Cys Pro Pro  
 900 905 910  
 Pro Ala Phe Ala Arg Ser Cys Phe Asp Leu Arg Ala Gly Gly Ser Gly  
 915 920 925

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Asn Gly Asp Leu Thr Val Gly Asp Trp Leu Asp Ser Ile Arg Met Gly  
 930 935 940  
 Arg Tyr Arg Asp His Phe Ala Ala Gly Gly Tyr Ser Ser Leu Gly Met  
 945 950 955 960  
 Val Leu Arg Met Asn Ala Gln Asp Val Arg Ala Leu Gly Ile Thr Leu  
 965 970 975  
 Met Gly His Gln Lys Lys Ile Leu Gly Ser Ile Gln Thr Met Arg  
 980 985 990

<210> 53  
 <211> 992  
 <212> PRT  
 <213> Homo sapiens

<400> 53  
 Met Ala Pro Ala Arg Gly Arg Leu Pro Pro Ala Leu Trp Val Val Thr  
 1 5 10 15  
 Ala Ala Ala Ala Ala Ala Thr Cys Val Ser Ala Ala Arg Gly Glu Val  
 20 25 30  
 Asn Leu Leu Asp Thr Ser Thr Ile His Gly Asp Trp Gly Trp Leu Thr  
 35 40 45  
 Tyr Pro Ala His Gly Trp Asp Ser Ile Asn Glu Val Asp Glu Ser Phe  
 50 55 60  
 Gln Pro Ile His Thr Tyr Gln Val Cys Asn Val Met Ser Pro Asn Gln  
 65 70 75 80  
 Asn Asn Trp Leu Arg Thr Ser Trp Val Pro Arg Asp Gly Ala Arg Arg  
 85 90 95  
 Val Tyr Ala Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Met Pro  
 100 105 110  
 Gly Val Leu Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr Tyr Leu Glu  
 115 120 125  
 Ser Asp Arg Asp Leu Gly Ala Ser Thr Gln Glu Ser Gln Phe Leu Lys  
 130 135 140  
 Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gly Ala Asp Leu Gly  
 145 150 155 160  
 Val Arg Arg Leu Lys Leu Asn Thr Glu Val Arg Ser Val Gly Pro Leu  
 165 170 175  
 Ser Lys Arg Gly Phe Tyr Leu Ala Phe Gln Asp Ile Gly Ala Cys Leu  
 180 185 190  
 Ala Ile Leu Ser Leu Arg Ile Tyr Tyr Lys Lys Cys Pro Ala Met Val  
 195 200 205  
 Arg Asn Leu Ala Ala Phe Ser Glu Ala Val Thr Gly Ala Asp Ser Ser  
 210 215 220  
 Ser Leu Val Glu Val Arg Gly Gln Cys Val Arg His Ser Glu Glu Arg

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225                      230                      235                      240  
 Asp Thr Pro Lys Met Tyr Cys Ser Ala Glu Gly Glu Trp Leu Val Pro  
                                  245                      250                      255  
 Ile Gly Lys Cys Val Cys Ser Ala Gly Tyr Glu Glu Arg Arg Asp Ala  
                                  260                      265                      270  
 Cys Val Ala Cys Glu Leu Gly Phe Tyr Lys Ser Ala Pro Gly Asp Gln  
                                  275                      280                      285  
 Leu Cys Ala Arg Cys Pro Pro His Ser His Ser Ala Ala Pro Ala Ala  
                                  290                      295                      300  
 Gln Ala Cys His Cys Asp Leu Ser Tyr Tyr Arg Ala Ala Leu Asp Pro  
 305                                   310                      315                      320  
 Pro Ser Ser Ala Cys Thr Arg Pro Pro Ser Ala Pro Val Asn Leu Ile  
                                  325                      330                      335  
 Ser Ser Val Asn Gly Thr Ser Val Thr Leu Glu Trp Ala Pro Pro Leu  
                                  340                      345                      350  
 Asp Pro Gly Gly Arg Ser Asp Ile Thr Tyr Asn Ala Val Cys Arg Arg  
                                  355                      360                      365  
 Cys Pro Trp Ala Leu Ser Arg Cys Glu Ala Cys Gly Ser Gly Thr Arg  
                                  370                      375                      380  
 Phe Val Pro Gln Gln Thr Ser Leu Val Gln Ala Ser Leu Leu Val Ala  
 385                                   390                      395                      400  
 Asn Leu Leu Ala His Met Asn Tyr Ser Phe Trp Ile Glu Ala Val Asn  
                                  405                      410                      415  
 Gly Val Ser Asp Leu Ser Pro Glu Pro Arg Arg Ala Ala Val Val Asn  
                                  420                      425                      430  
 Ile Thr Thr Asn Gln Ala Ala Pro Ser Gln Val Val Val Ile Arg Gln  
                                  435                      440                      445  
 Glu Arg Ala Gly Gln Thr Ser Val Ser Leu Leu Trp Gln Glu Pro Glu  
                                  450                      455                      460  
 Gln Pro Asn Gly Ile Ile Leu Glu Tyr Glu Ile Lys Tyr Tyr Glu Lys  
 465                                   470                      475                      480  
 Asp Lys Glu Met Gln Ser Tyr Ser Thr Leu Lys Ala Val Thr Thr Arg  
                                  485                      490                      495  
 Ala Thr Val Ser Gly Leu Lys Pro Gly Thr Arg Tyr Val Phe Gln Val  
                                  500                      505                      510  
 Arg Ala Arg Thr Ser Ala Gly Cys Gly Arg Phe Ser Gln Ala Met Glu  
                                  515                      520                      525  
 Val Glu Thr Gly Lys Pro Arg Pro Arg Tyr Asp Thr Arg Thr Ile Val  
                                  530                      535                      540  
 Trp Ile Cys Leu Thr Leu Ile Thr Gly Leu Val Val Leu Leu Leu Leu  
 545                                   550                      555                      560  
 Leu Ile Cys Lys Lys Arg His Cys Gly Tyr Ser Lys Ala Phe Gln Asp

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565

570

575

Ser Asp Glu Glu Lys Met His Tyr Gln Asn Gly Gln Ala Pro Pro Pro  
 580 585 590  
 Val Phe Leu Pro Leu His His Pro Pro Gly Lys Leu Pro Glu Pro Gln  
 595 600 605  
 Phe Tyr Ala Glu Pro His Thr Tyr Glu Glu Pro Gly Arg Ala Gly Arg  
 610 615 620  
 Ser Phe Thr Arg Glu Ile Glu Ala Ser Arg Ile His Ile Glu Lys Ile  
 625 630 635 640  
 Ile Gly Ser Gly Asp Ser Gly Glu Val Cys Tyr Gly Arg Leu Arg Val  
 645 650 655  
 Pro Gly Gln Arg Asp Val Pro Val Ala Ile Lys Ala Leu Lys Ala Gly  
 660 665 670  
 Tyr Thr Glu Arg Gln Arg Arg Asp Phe Leu Ser Glu Ala Ser Ile Met  
 675 680 685  
 Gly Gln Phe Asp His Pro Asn Ile Ile Arg Leu Glu Gly Val Val Thr  
 690 695 700  
 Arg Gly Arg Leu Ala Met Ile Val Thr Glu Tyr Met Glu Asn Gly Ser  
 705 710 715 720  
 Leu Asp Thr Phe Leu Arg Thr His Asp Gly Gln Phe Thr Ile Met Gln  
 725 730 735  
 Leu Val Gly Met Leu Arg Gly Val Gly Ala Gly Met Arg Tyr Leu Ser  
 740 745 750  
 Asp Leu Gly Tyr Val His Arg Asp Leu Ala Ala Arg Asn Val Leu Val  
 755 760 765  
 Asp Ser Asn Leu Val Cys Lys Val Ser Asp Phe Gly Leu Ser Arg Val  
 770 775 780  
 Leu Glu Asp Asp Pro Asp Ala Ala Tyr Thr Thr Thr Gly Gly Lys Ile  
 785 790 795 800  
 Pro Ile Arg Trp Thr Ala Pro Glu Ala Ile Ala Phe Arg Thr Phe Ser  
 805 810 815  
 Ser Ala Ser Asp Val Trp Ser Phe Gly Val Val Met Trp Glu Val Leu  
 820 825 830  
 Ala Tyr Gly Glu Arg Pro Tyr Trp Asn Met Thr Asn Arg Asp Val Ile  
 835 840 845  
 Ser Ser Val Glu Glu Gly Tyr Arg Leu Pro Ala Pro Met Gly Cys Pro  
 850 855 860  
 His Ala Leu His Gln Leu Met Leu Asp Cys Trp His Lys Asp Arg Ala  
 865 870 875 880  
 Gln Arg Pro Arg Phe Ser Gln Ile Val Ser Val Leu Asp Ala Leu Ile  
 885 890 895  
 Arg Ser Pro Glu Ser Leu Arg Ala Thr Ala Thr Val Ser Arg Cys Pro



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905 910

900

Pro Pro Ala Phe Val Arg Ser Cys Phe Asp Leu Arg Gly Gly Ser Gly  
915 920 925  
Gly Gly Gly Gly Leu Thr Val Gly Asp Trp Leu Asp Ser Ile Arg Met  
930 935 940  
Gly Arg Tyr Arg Asp His Phe Ala Ala Gly Gly Tyr Ser Ser Leu Gly  
945 950 955 960  
Met Val Leu Arg Met Asn Ala Gln Asp Val Arg Ala Leu Gly Ile Thr  
965 970 975  
Leu Met Gly His Gln Lys Lys Ile Leu Gly Ser Ile Gln Thr Met Arg  
980 985 990

<210> 54  
<211> 450  
<212> PRT  
<213> Mus musculus

<400> 54

Met Ala Pro Ala Arg Ala Arg Leu Ser Pro Ala Leu Trp Val Val Thr  
1 5 10 15  
Ala Ala Ala Ala Ala Thr Cys Val Ser Ala Gly Arg Gly Glu Val Asn  
20 25 30  
Leu Leu Asp Thr Ser Thr Ile His Gly Asp Trp Gly Trp Leu Thr Tyr  
35 40 45  
Pro Ala His Gly Trp Asp Ser Ile Asn Glu Val Asp Glu Ser Phe Arg  
50 55 60  
Pro Ile His Thr Tyr Gln Val Cys Asn Val Met Ser Pro Asn Gln Asn  
65 70 75 80  
Asn Trp Leu Arg Thr Asn Trp Val Pro Arg Asp Gly Ala Arg Arg Val  
85 90 95  
Tyr Ala Glu Ile Lys Phe Thr Leu Arg Asp Cys Asn Ser Ile Pro Gly  
100 105 110  
Val Leu Gly Thr Cys Lys Glu Thr Phe Asn Leu His Tyr Leu Glu Ser  
115 120 125  
Asp Arg Asp Leu Gly Ala Ser Thr Gln Glu Ser Gln Phe Leu Lys Ile  
130 135 140  
Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gly Ala Asp Leu Gly Val  
145 150 155 160  
Arg Arg Leu Lys Leu Asn Thr Glu Val Arg Gly Val Gly Pro Leu Ser  
165 170 175  
Lys Arg Gly Phe Tyr Leu Ala Phe Gln Asp Ile Gly Ala Cys Leu Ala  
180 185 190

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Ile Leu Ser Leu Arg Ile Tyr Tyr Lys Lys Cys Pro Ala Met Val Arg  
 195 200 205  
 Asn Leu Ala Ala Phe Ser Glu Ala Val Thr Gly Ala Asp Ser Ser Ser  
 210 215 220  
 Leu Val Glu Val Arg Gly Gln Cys Val Arg His Ser Glu Glu Arg Asp  
 225 230 235 240  
 Thr Pro Lys Met Tyr Cys Ser Ala Glu Gly Glu Trp Leu Val Pro Ile  
 245 250 255  
 Gly Lys Cys Val Cys Ser Ala Gly Tyr Glu Glu Arg Arg Asp Ala Cys  
 260 265 270  
 Met Ala Cys Glu Leu Gly Phe Tyr Lys Ser Ala Pro Gly Asp Gln Leu  
 275 280 285  
 Cys Ala Arg Cys Pro Pro His Ser His Ser Ala Thr Pro Ala Ala Gln  
 290 295 300  
 Thr Cys Arg Cys Asp Leu Ser Tyr Tyr Arg Ala Ala Leu Asp Pro Pro  
 305 310 315 320  
 Ser Ala Ala Cys Thr Arg Pro Pro Ser Ala Pro Val Asn Leu Ile Ser  
 325 330 335  
 Ser Val Asn Gly Thr Ser Val Thr Leu Glu Trp Ala Pro Pro Leu Asp  
 340 345 350  
 Pro Gly Gly Arg Ser Asp Ile Thr Tyr Asn Ala Val Cys Arg Arg Cys  
 355 360 365  
 Pro Trp Ala Leu Ser His Cys Glu Ala Cys Gly Ser Gly Thr Arg Phe  
 370 375 380  
 Val Pro Gln Gln Thr Ser Leu Ala Gln Ala Ser Leu Leu Val Ala Asn  
 385 390 395 400  
 Leu Leu Ala His Met Asn Tyr Ser Phe Trp Ile Glu Ala Val Asn Gly  
 405 410 415  
 Val Ser Asn Leu Ser Pro Glu Pro Arg Ser Ala Ala Val Val Asn Ile  
 420 425 430  
 Thr Thr Asn Gln Ala Ala Pro Ser Gln Val Val Val Ile Arg Gln Glu  
 435 440 445  
 Arg Ala  
 450

<210> 55  
 <211> 480  
 <212> PRT  
 <213> Homo sapiens

<400> 55  
 Met Arg Gly Ser Gly Pro Arg Gly Ala Gly His Arg Arg Pro Pro Ser  
 1 5 10 15  
 Gly Gly Gly Asp Thr Pro Ile Thr Pro Ala Ser Leu Ala Gly Cys Tyr  
 20 25 30

CURA 85 CON Sequence Listing 08\_30\_2004

Ser Ala Pro Arg Arg Ala Pro Leu Trp Thr Cys Leu Leu Leu Cys Ala  
35 40 45  
Ala Leu Arg Thr Leu Leu Ala Ser Pro Ser Asn Glu Val Asn Leu Leu  
50 55 60  
Asp Ser Arg Thr Val Met Gly Asp Leu Gly Trp Ile Ala Phe Pro Lys  
65 70 75 80  
Asn Gly Trp Glu Glu Ile Gly Glu Val Asp Glu Asn Tyr Ala Pro Ile  
85 90 95  
His Thr Tyr Gln Val Cys Lys Val Met Glu Gln Asn Gln Asn Asn Trp  
100 105 110  
Leu Leu Thr Ser Trp Ile Ser Asn Glu Gly Ala Ser Arg Ile Phe Ile  
115 120 125  
Glu Leu Lys Phe Thr Leu Arg Asp Cys Asn Ser Leu Pro Gly Gly Leu  
130 135 140  
Gly Thr Cys Lys Glu Thr Phe Asn Met Tyr Tyr Phe Glu Ser Asp Asp  
145 150 155 160  
Gln Asn Gly Arg Asn Ile Lys Glu Asn Gln Tyr Ile Lys Ile Asp Thr  
165 170 175  
Ile Ala Ala Asp Glu Ser Phe Thr Glu Leu Asp Leu Gly Asp Arg Val  
180 185 190  
Met Lys Leu Asn Thr Glu Val Arg Asp Val Gly Pro Leu Ser Lys Lys  
195 200 205  
Gly Phe Tyr Leu Ala Phe Gln Asp Val Gly Ala Cys Ile Ala Leu Val  
210 215 220  
Ser Val Arg Val Tyr Tyr Lys Lys Cys Pro Ser Val Val Arg His Leu  
225 230 235 240  
Ala Val Phe Pro Asp Thr Ile Thr Gly Ala Asp Ser Ser Gln Leu Leu  
245 250 255  
Glu Val Ser Gly Ser Cys Val Asn His Ser Val Thr Asp Glu Pro Pro  
260 265 270  
Lys Met His Cys Ser Ala Glu Gly Glu Trp Leu Val Pro Ile Gly Lys  
275 280 285  
Cys Met Cys Lys Ala Gly Tyr Glu Glu Lys Asn Gly Thr Cys Gln Val  
290 295 300  
Cys Arg Pro Gly Phe Phe Lys Ala Ser Pro His Ile Gln Ser Cys Gly  
305 310 315 320  
Lys Cys Pro Pro His Ser Tyr Thr His Glu Glu Ala Ser Thr Ser Cys  
325 330 335  
Val Cys Glu Lys Asp Tyr Phe Arg Arg Glu Ser Asp Pro Pro Thr Met  
340 345 350  
Ala Cys Thr Arg Pro Pro Ser Ala Pro Arg Asn Ala Ile Ser Asn Val  
355 360 365

CURA 85 CON Sequence Listing 08\_30\_2004

Asn Glu Thr Ser Val Phe Leu Glu Trp Ile Pro Pro Ala Asp Thr Gly  
 370 375 380  
 Gly Arg Lys Asp Val Ser Tyr Tyr Ile Ala Cys Lys Lys Cys Asn Ser  
 385 390 395 400  
 His Ala Gly Val Cys Glu Glu Cys Gly Gly His Val Arg Tyr Leu Pro  
 405 410 415  
 Arg Gln Ser Gly Leu Lys Asn Thr Ser Val Met Met Val Asp Leu Leu  
 420 425 430  
 Ala His Thr Asn Tyr Thr Phe Glu Ile Glu Ala Val Asn Gly Val Ser  
 435 440 445  
 Asp Leu Ser Pro Gly Ala Arg Gln Tyr Val Ser Val Asn Val Thr Thr  
 450 455 460  
 Asn Gln Ala Ala Pro Ser Pro Val Thr Asn Val Lys Lys Gly Lys Ile  
 465 470 475 480

<210> 56  
 <211> 456  
 <212> PRT  
 <213> Gallus gallus

<400> 56  
 Met Gly Leu Arg Gly Gly Gly Gly Arg Ala Gly Gly Pro Ala Pro Gly  
 1 5 10 15  
 Trp Thr Cys Leu Leu Leu Cys Ala Ala Leu Arg Ser Leu Leu Ala Ser  
 20 25 30  
 Pro Gly Ser Glu Val Asn Leu Leu Asp Ser Arg Thr Val Met Gly Asp  
 35 40 45  
 Leu Gly Trp Ile Ala Tyr Pro Lys Asn Gly Trp Glu Glu Ile Gly Glu  
 50 55 60  
 Val Asp Glu Asn Tyr Ala Pro Ile His Thr Tyr Gln Val Cys Lys Val  
 65 70 75 80  
 Met Glu Gln Asn Gln Asn Asn Trp Leu Leu Thr Ser Trp Ile Ser Asn  
 85 90 95  
 Glu Gly Arg Pro Ala Ser Ser Phe Glu Leu Lys Phe Thr Leu Arg Asp  
 100 105 110  
 Cys Asn Ser Leu Pro Gly Gly Leu Gly Thr Cys Lys Glu Thr Phe Asn  
 115 120 125  
 Met Tyr Tyr Phe Glu Ser Asp Asp Glu Asp Gly Arg Asn Ile Arg Glu  
 130 135 140  
 Asn Gln Tyr Ile Lys Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr  
 145 150 155 160  
 Glu Leu Asp Leu Gly Asp Arg Val Met Lys Leu Asn Thr Glu Val Arg

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165

170

175

Asp Val Gly Pro Leu Thr Lys Lys Gly Phe Tyr Leu Ala Phe Gln Asp  
 180 185 190  
 Val Gly Ala Cys Ile Ala Leu Val Ser Val Arg Val Tyr Tyr Lys Lys  
 195 200 205  
 Cys Pro Ser Val Ile Arg Asn Leu Ala Arg Phe Pro Asp Thr Ile Thr  
 210 215 220  
 Gly Ala Asp Ser Ser Gln Leu Leu Glu Val Ser Gly Val Cys Val Asn  
 225 230 235 240  
 His Ser Val Thr Asp Glu Ala Pro Lys Met His Cys Ser Ala Glu Gly  
 245 250 255  
 Glu Trp Leu Val Pro Ile Gly Lys Cys Leu Cys Lys Ala Gly Tyr Glu  
 260 265 270  
 Glu Lys Asn Asn Thr Cys Gln Val Cys Arg Pro Gly Phe Phe Lys Ala  
 275 280 285  
 Ser Pro His Ser Pro Ser Cys Ser Lys Cys Pro Pro His Ser Tyr Thr  
 290 295 300  
 Leu Asp Glu Ala Ser Thr Ser Cys Leu Cys Glu Glu His Tyr Phe Arg  
 305 310 315 320  
 Arg Glu Ser Asp Pro Pro Thr Met Ala Cys Thr Arg Pro Pro Ser Ala  
 325 330 335  
 Pro Arg Ser Ala Ile Ser Asn Val Asn Glu Thr Ser Val Phe Leu Glu  
 340 345 350  
 Trp Ile Pro Pro Ala Asp Thr Gly Gly Arg Lys Asp Val Ser Tyr Tyr  
 355 360 365  
 Ile Ala Cys Lys Lys Cys Asn Ser His Ser Gly Leu Cys Glu Ala Cys  
 370 375 380  
 Gly Ser His Val Arg Tyr Leu Pro Gln Gln Thr Gly Leu Lys Asn Thr  
 385 390 395 400  
 Ser Val Met Met Val Asp Leu Leu Ala His Thr Asn Tyr Thr Phe Glu  
 405 410 415  
 Ile Glu Ala Val Asn Gly Val Ser Asp Gln Asn Pro Gly Ala Arg Gln  
 420 425 430  
 Phe Val Ser Val Asn Val Thr Thr Asn Gln Ala Ala Pro Ser Pro Val  
 435 440 445  
 Ser Ser Val Lys Lys Gly Lys Ile  
 450 455

&lt;210&gt; 57

&lt;211&gt; 649

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 57

## CURA 85 CON Sequence Listing 08\_30\_2004

Met Ile Ser Ala Ala Trp Ser Ile Phe Leu Ile Gly Thr Lys Ile Gly  
 1 5 10 15  
 Leu Phe Leu Gln Val Ala Pro Leu Ser Val Met Ala Lys Ser Cys Pro  
 20 25 30  
 Ser Val Cys Arg Cys Asp Ala Gly Phe Ile Tyr Cys Asn Asp Arg Phe  
 35 40 45  
 Leu Thr Ser Ile Pro Thr Gly Ile Pro Glu Asp Ala Thr Thr Leu Tyr  
 50 55 60  
 Leu Gln Asn Asn Gln Ile Asn Asn Ala Gly Ile Pro Ser Asp Leu Lys  
 65 70 75 80  
 Asn Leu Leu Lys Val Glu Arg Ile Tyr Leu Tyr His Asn Ser Leu Asp  
 85 90 95  
 Glu Phe Pro Thr Asn Leu Pro Lys Tyr Val Lys Glu Leu His Leu Gln  
 100 105 110  
 Glu Asn Asn Ile Arg Thr Ile Thr Tyr Asp Ser Leu Ser Lys Ile Pro  
 115 120 125  
 Tyr Leu Glu Glu Leu His Leu Asp Asp Asn Ser Val Ser Ala Val Ser  
 130 135 140  
 Ile Glu Glu Gly Ala Phe Arg Asp Ser Asn Tyr Leu Arg Leu Leu Phe  
 145 150 155 160  
 Leu Ser Arg Asn His Leu Ser Thr Ile Pro Trp Gly Leu Pro Arg Thr  
 165 170 175  
 Ile Glu Glu Leu Arg Leu Asp Asp Asn Arg Ile Ser Thr Ile Ser Ser  
 180 185 190  
 Pro Ser Leu Gln Gly Leu Thr Ser Leu Lys Arg Leu Val Leu Asp Gly  
 195 200 205  
 Asn Leu Leu Asn Asn His Gly Leu Gly Asp Lys Val Phe Phe Asn Leu  
 210 215 220  
 Val Asn Leu Thr Glu Leu Ser Leu Val Arg Asn Ser Leu Thr Ala Ala  
 225 230 235 240  
 Pro Val Asn Leu Pro Gly Thr Asn Leu Arg Lys Leu Tyr Leu Gln Asp  
 245 250 255  
 Asn His Ile Asn Arg Val Pro Pro Asn Ala Phe Ser Tyr Leu Arg Gln  
 260 265 270  
 Leu Tyr Arg Leu Asp Met Ser Asn Asn Asn Leu Ser Asn Leu Pro Gln  
 275 280 285  
 Gly Ile Phe Asp Asp Leu Asp Asn Ile Thr Gln Leu Ile Leu Arg Asn  
 290 295 300  
 Asn Pro Trp Tyr Cys Gly Cys Lys Met Lys Trp Val Arg Asp Trp Leu  
 305 310 315 320  
 Gln Ser Leu Pro Val Lys Val Asn Val Arg Gly Leu Met Cys Gln Ala  
 325 330 335

## CURA 85 CON Sequence Listing 08\_30\_2004

Pro Glu Lys Val Arg Gly Met Ala Ile Lys Asp Leu Asn Ala Glu Leu  
 340 345 350  
 Phe Asp Cys Lys Asp Ser Gly Ile Val Ser Thr Ile Gln Ile Thr Thr  
 355 360 365  
 Ala Ile Pro Asn Thr Val Tyr Pro Ala Gln Gly Gln Trp Pro Ala Pro  
 370 375 380  
 Val Thr Lys Gln Pro Asp Ile Lys Asn Pro Lys Leu Thr Lys Asp His  
 385 390 395 400  
 Gln Thr Thr Gly Ser Pro Ser Arg Lys Thr Ile Thr Ile Thr Val Lys  
 405 410 415  
 Ser Val Thr Ser Asp Thr Ile His Ile Ser Trp Lys Leu Ala Leu Pro  
 420 425 430  
 Met Thr Ala Leu Arg Leu Ser Trp Leu Lys Leu Gly His Ser Pro Ala  
 435 440 445  
 Phe Gly Ser Ile Thr Glu Thr Ile Val Thr Gly Glu Arg Ser Glu Tyr  
 450 455 460  
 Leu Val Thr Ala Leu Glu Pro Asp Ser Pro Tyr Lys Val Cys Met Val  
 465 470 475 480  
 Pro Met Glu Thr Ser Asn Leu Tyr Leu Phe Asp Glu Thr Pro Val Cys  
 485 490 495  
 Ile Glu Thr Glu Thr Ala Pro Leu Arg Met Tyr Asn Pro Thr Thr Thr  
 500 505 510  
 Leu Asn Arg Glu Gln Glu Lys Glu Pro Tyr Lys Asn Pro Asn Leu Pro  
 515 520 525  
 Leu Ala Ala Ile Ile Gly Gly Ala Val Ala Leu Val Thr Ile Ala Leu  
 530 535 540  
 Leu Ala Leu Val Cys Trp Tyr Val His Arg Asn Gly Ser Leu Phe Ser  
 545 550 555 560  
 Arg Asn Cys Ala Tyr Ser Lys Gly Arg Arg Arg Lys Asp Asp Tyr Ala  
 565 570 575  
 Glu Ala Gly Thr Lys Lys Asp Asn Ser Ile Leu Glu Ile Arg Glu Thr  
 580 585 590  
 Ser Phe Gln Met Leu Pro Ile Ser Asn Glu Pro Ile Ser Lys Glu Glu  
 595 600 605  
 Phe Val Ile His Thr Ile Phe Pro Pro Asn Gly Met Asn Leu Tyr Lys  
 610 615 620  
 Asn Asn His Ser Glu Ser Ser Ser Asn Arg Ser Tyr Arg Asp Ser Gly  
 625 630 635 640  
 Ile Pro Asp Ser Asp His Ser His Ser  
 645

&lt;210&gt; 58

&lt;211&gt; 660

## CURA 85 CON Sequence Listing 08\_30\_2004

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 58

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Met Gly Leu Gln Thr Thr Lys Trp Pro Ser His Gly Ala Phe Phe Leu
 1      5      10      15
Lys Ser Trp Leu Ile Ile Ser Leu Gly Leu Tyr Ser Gln Val Ser Lys
 20      25      30
Leu Leu Ala Cys Pro Ser Val Cys Arg Cys Asp Arg Asn Phe Val Tyr
 35      40      45
Cys Asn Glu Arg Ser Leu Thr Ser Val Pro Leu Gly Ile Pro Glu Gly
 50      55      60
Val Thr Val Leu Tyr Leu His Asn Asn Gln Ile Asn Asn Ala Gly Phe
 65      70      75      80
Pro Ala Glu Leu His Asn Val Gln Ser Val His Thr Val Tyr Leu Tyr
 85      90      95
Gly Asn Gln Leu Asp Glu Phe Pro Met Asn Leu Pro Lys Asn Val Arg
100      105      110
Val Leu His Leu Gln Glu Asn Asn Ile Gln Thr Ile Ser Arg Ala Ala
115      120      125
Leu Ala Gln Leu Leu Lys Leu Glu Glu Leu His Leu Asp Asp Asn Ser
130      135      140
Ile Ser Thr Val Gly Val Glu Asp Gly Ala Phe Arg Glu Ala Ile Ser
145      150      155      160
Leu Lys Leu Leu Phe Leu Ser Lys Asn His Leu Ser Ser Val Pro Val
165      170      175
Gly Leu Pro Val Asp Leu Gln Glu Leu Arg Val Asp Glu Asn Arg Ile
180      185      190
Ala Val Ile Ser Asp Met Ala Phe Gln Asn Leu Thr Ser Leu Glu Arg
195      200      205
Leu Ile Val Asp Gly Asn Leu Leu Thr Asn Lys Gly Ile Ala Glu Gly
210      215      220
Thr Phe Ser His Leu Thr Lys Leu Lys Glu Phe Ser Ile Val Arg Asn
225      230      235      240
Ser Leu Ser His Pro Pro Pro Asp Leu Pro Gly Thr His Leu Ile Arg
245      250      255
Leu Tyr Leu Gln Asp Asn Gln Ile Asn His Ile Pro Leu Thr Ala Phe
260      265      270
Ser Asn Leu Arg Lys Leu Glu Arg Leu Asp Ile Ser Asn Asn Gln Leu
275      280      285
Arg Met Leu Thr Gln Gly Val Phe Asp Asn Leu Ser Asn Leu Lys Gln
290      295      300
Leu Thr Ala Arg Asn Asn Pro Trp Phe Cys Asp Cys Ser Ile Lys Trp
305      310      315      320

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## CURA 85 CON Sequence Listing 08\_30\_2004

Val Thr Glu Trp Leu Lys Tyr Ile Pro Ser Ser Leu Asn Val Arg Gly  
 325 330 335  
 Phe Met Cys Gln Gly Pro Glu Gln Val Arg Gly Met Ala Val Arg Glu  
 340 345 350  
 Leu Asn Met Asn Leu Leu Ser Cys Pro Thr Thr Thr Pro Gly Leu Pro  
 355 360 365  
 Leu Phe Thr Pro Ala Pro Ser Thr Ala Ser Pro Thr Thr Gln Pro Pro  
 370 375 380  
 Thr Leu Ser Ile Pro Asn Pro Ser Arg Ser Tyr Thr Pro Pro Thr Pro  
 385 390 395 400  
 Thr Thr Ser Lys Leu Pro Thr Ile Pro Asp Trp Asp Gly Arg Glu Arg  
 405 410 415  
 Val Thr Pro Pro Ile Ser Glu Arg Ile Gln Leu Ser Ile His Phe Val  
 420 425 430  
 Asn Asp Thr Ser Ile Gln Val Ser Trp Leu Ser Leu Phe Thr Val Met  
 435 440 445  
 Ala Tyr Lys Leu Thr Trp Val Lys Met Gly His Ser Leu Val Gly Gly  
 450 455 460  
 Ile Val Gln Glu Arg Ile Val Ser Gly Glu Lys Gln His Leu Ser Leu  
 465 470 475 480  
 Val Asn Leu Glu Pro Arg Ser Thr Tyr Arg Ile Cys Leu Val Pro Leu  
 485 490 495  
 Asp Ala Phe Asn Tyr Arg Ala Val Glu Asp Thr Ile Cys Ser Glu Ala  
 500 505 510  
 Thr Thr His Ala Ser Tyr Leu Asn Asn Gly Ser Asn Thr Ala Ser Ser  
 515 520 525  
 His Glu Gln Thr Thr Ser His Ser Met Gly Ser Pro Phe Leu Leu Ala  
 530 535 540  
 Gly Leu Ile Gly Gly Ala Val Ile Phe Val Leu Val Val Leu Leu Ser  
 545 550 555 560  
 Val Phe Cys Trp His Met His Lys Lys Gly Arg Tyr Thr Ser Gln Lys  
 565 570 575  
 Trp Lys Tyr Asn Arg Gly Arg Arg Lys Asp Asp Tyr Cys Glu Ala Gly  
 580 585 590  
 Thr Lys Lys Asp Asn Ser Ile Leu Glu Met Thr Glu Thr Ser Phe Gln  
 595 600 605  
 Ile Val Ser Leu Asn Asn Asp Gln Leu Leu Lys Gly Asp Phe Arg Leu  
 610 615 620  
 Gln Pro Ile Tyr Thr Pro Asn Gly Gly Ile Asn Tyr Thr Asp Cys His  
 625 630 635 640  
 Ile Pro Asn Asn Met Arg Tyr Cys Asn Ser Ser Val Pro Asp Leu Glu  
 645 650 655

## CURA 85 CON Sequence Listing 08\_30\_2004

His Cys His Thr  
660

<210> 59  
<211> 674  
<212> PRT  
<213> Homo sapiens

<400> 59  
Met Val Val Ala His Pro Thr Ala Thr Ala Thr Thr Thr Pro Thr Ala  
1 5 10 15  
Thr Val Thr Ala Thr Val Val Met Thr Thr Ala Thr Met Asp Leu Arg  
20 25 30  
Asp Trp Leu Phe Leu Cys Tyr Gly Leu Ile Ala Phe Leu Thr Glu Val  
35 40 45  
Ile Asp Ser Thr Thr Cys Pro Ser Val Cys Arg Cys Asp Asn Gly Phe  
50 55 60  
Ile Tyr Cys Asn Asp Arg Gly Leu Thr Ser Ile Pro Ala Asp Ile Pro  
65 70 75 80  
Asp Asp Ala Thr Thr Leu Tyr Leu Gln Asn Asn Gln Ile Asn Asn Ala  
85 90 95  
Gly Ile Pro Gln Asp Leu Lys Thr Lys Val Asn Val Gln Val Ile Tyr  
100 105 110  
Leu Tyr Glu Asn Asp Leu Asp Glu Phe Pro Ile Asn Leu Pro Arg Ser  
115 120 125  
Leu Arg Glu Leu His Leu Gln Asp Asn Asn Val Arg Thr Ile Ala Arg  
130 135 140  
Asp Ser Leu Ala Arg Ile Pro Leu Leu Glu Lys Leu His Leu Asp Asp  
145 150 155 160  
Asn Ser Val Ser Thr Val Ser Ile Glu Glu Asp Ala Phe Ala Asp Ser  
165 170 175  
Lys Gln Leu Lys Leu Leu Phe Leu Ser Arg Asn His Leu Ser Ser Ile  
180 185 190  
Pro Ser Gly Leu Pro His Thr Leu Glu Glu Leu Arg Leu Asp Asp Asn  
195 200 205  
Arg Ile Ser Thr Ile Pro Leu His Ala Phe Lys Gly Leu Asn Ser Leu  
210 215 220  
Arg Arg Leu Val Leu Asp Gly Asn Leu Leu Ala Asn Gln Arg Ile Ala  
225 230 235 240  
Asp Asp Thr Phe Ser Arg Leu Gln Asn Leu Thr Glu Leu Ser Leu Val  
245 250 255  
Arg Asn Ser Leu Ala Ala Pro Pro Leu Asn Leu Pro Ser Ala His Leu  
260 265 270  
Gln Lys Leu Tyr Leu Gln Asp Asn Ala Ile Ser His Ile Pro Tyr Asn

CURA 85 CON Sequence Listing 08\_30\_2004  
280 285

275

Thr Leu Ala Lys Met Arg Glu Leu Glu Arg Leu Asp Leu Ser Asn Asn  
290 295 300  
Asn Leu Thr Thr Leu Pro Arg Gly Leu Phe Asp Asp Leu Gly Asn Leu  
305 310 315 320  
Ala Gln Leu Leu Leu Arg Asn Asn Pro Trp Phe Cys Gly Cys Asn Leu  
325 330 335  
Met Trp Leu Arg Asp Trp Val Lys Ala Arg Ala Ala Val Val Asn Val  
340 345 350  
Arg Gly Leu Met Cys Gln Gly Pro Glu Lys Val Arg Gly Met Ala Ile  
355 360 365  
Lys Asp Ile Thr Ser Glu Met Asp Glu Cys Phe Glu Thr Gly Pro Gln  
370 375 380  
Gly Gly Val Ala Asn Ala Ala Ala Lys Thr Thr Ala Ser Asn His Ala  
385 390 395 400  
Ser Ala Thr Thr Pro Gln Gly Ser Leu Phe Thr Leu Lys Ala Lys Arg  
405 410 415  
Pro Gly Leu Arg Leu Pro Asp Ser Asn Ile Asp Tyr Pro Met Ala Thr  
420 425 430  
Gly Asp Gly Ala Lys Thr Leu Ala Ile His Val Lys Ala Leu Thr Ala  
435 440 445  
Asp Ser Ile Arg Ile Thr Trp Lys Ala Thr Leu Pro Ala Ser Ser Phe  
450 455 460  
Arg Leu Ser Trp Leu Arg Leu Gly His Ser Pro Ala Val Gly Ser Ile  
465 470 475 480  
Thr Glu Thr Leu Val Gln Gly Asp Lys Thr Glu Tyr Leu Leu Thr Ala  
485 490 495  
Leu Glu Pro Lys Ser Thr Tyr Ile Ile Cys Met Val Thr Met Glu Thr  
500 505 510  
Ser Asn Ala Tyr Val Ala Asp Glu Thr Pro Val Cys Ala Lys Ala Glu  
515 520 525  
Thr Ala Asp Ser Tyr Gly Pro Thr Thr Thr Leu Asn Gln Glu Gln Asn  
530 535 540  
Ala Gly Pro Met Ala Ser Leu Pro Leu Ala Gly Ile Ile Gly Gly Ala  
545 550 555 560  
Val Ala Leu Val Phe Leu Phe Leu Val Leu Gly Ala Ile Cys Trp Tyr  
565 570 575  
Val His Gln Ala Gly Glu Leu Leu Thr Arg Glu Arg Ala Tyr Asn Arg  
580 585 590  
Gly Ser Arg Glu Lys Asp Asp Tyr Met Glu Ser Gly Thr Lys Lys Asp  
595 600 605  
Asn Ser Ile Leu Glu Ile Arg Gly Pro Gly Leu Gln Met Leu Pro Ile

CURA 85 CON Sequence Listing 08\_30\_2004  
615 620

610

Asn Pro Tyr Arg Ala Lys Glu Glu Tyr Val Val His Thr Ile Phe Pro  
625 630 635 640  
Ser Asn Gly Ser Ser Leu Cys Lys Ala Thr His Thr Ile Gly Tyr Gly  
645 650 655  
Thr Thr Arg Gly Tyr Arg Asp Gly Gly Ile Pro Asp Ile Asp Tyr Ser  
660 665 670  
Tyr Thr

<210> 60  
<211> 674  
<212> PRT  
<213> Homo sapiens

<400> 60  
Met Val Val Ala His Pro Thr Ala Thr Ala Thr Thr Thr Pro Thr Ala  
1 5 10 15  
Thr Val Thr Ala Thr Val Val Met Thr Thr Ala Thr Met Asp Leu Arg  
20 25 30  
Asp Trp Leu Phe Leu Cys Tyr Gly Leu Ile Ala Phe Leu Thr Glu Val  
35 40 45  
Ile Asp Ser Thr Thr Cys Pro Ser Val Cys Arg Cys Asp Asn Gly Phe  
50 55 60  
Ile Tyr Cys Asn Asp Arg Gly Leu Thr Ser Ile Pro Ala Asp Ile Pro  
65 70 75 80  
Asp Asp Ala Thr Thr Leu Tyr Leu Gln Asn Asn Gln Ile Asn Asn Ala  
85 90 95  
Gly Ile Pro Gln Asp Leu Lys Thr Lys Val Asn Val Gln Val Ile Tyr  
100 105 110  
Leu Tyr Glu Asn Asp Leu Asp Glu Phe Pro Ile Asn Leu Pro Arg Ser  
115 120 125  
Leu Arg Glu Leu His Leu Gln Asp Asn Asn Val Arg Thr Ile Ala Arg  
130 135 140  
Asp Ser Leu Ala Arg Ile Pro Leu Leu Glu Lys Leu His Leu Asp Asp  
145 150 155 160  
Asn Ser Val Ser Thr Val Ser Ile Glu Glu Asp Ala Phe Ala Asp Ser  
165 170 175  
Lys Gln Leu Lys Leu Leu Phe Leu Ser Arg Asn His Leu Ser Ser Ile  
180 185 190  
Pro Ser Gly Leu Pro His Thr Leu Glu Glu Leu Arg Leu Asp Asp Asn  
195 200 205  
Arg Ile Ser Thr Ile Pro Leu His Ala Phe Lys Gly Leu Asn Ser Leu  
210 215 220

## CURA 85 CON Sequence Listing 08\_30\_2004

Arg Arg Leu Val Leu Asp Gly Asn Leu Leu Ala Asn Gln Arg Ile Ala  
 225 230 235 240  
 Asp Asp Thr Phe Ser Arg Leu Gln Asn Leu Thr Glu Leu Ser Leu Val  
 245 250 255  
 Arg Asn Ser Leu Ala Ala Pro Pro Leu Asn Leu Pro Ser Ala His Leu  
 260 265 270  
 Gln Lys Leu Tyr Leu Gln Asp Asn Ala Ile Ser His Ile Pro Tyr Asn  
 275 280 285  
 Thr Leu Ala Lys Met Arg Glu Leu Glu Arg Leu Asp Leu Ser Asn Asn  
 290 295 300  
 Asn Leu Thr Thr Leu Pro Arg Gly Leu Phe Asp Asp Leu Gly Asn Leu  
 305 310 315 320  
 Ala Gln Leu Leu Leu Arg Asn Asn Pro Trp Phe Cys Gly Cys Asn Leu  
 325 330 335  
 Met Trp Leu Arg Asp Trp Val Lys Ala Arg Ala Ala Val Val Asn Val  
 340 345 350  
 Arg Gly Leu Met Cys Gln Gly Pro Glu Lys Val Arg Gly Met Ala Ile  
 355 360 365  
 Lys Asp Ile Thr Ser Glu Met Asp Glu Cys Phe Glu Thr Gly Pro Gln  
 370 375 380  
 Gly Gly Val Ala Asn Ala Ala Ala Lys Thr Thr Ala Ser Asn His Ala  
 385 390 395 400  
 Ser Ala Thr Thr Pro Gln Gly Ser Leu Phe Thr Leu Lys Ala Lys Arg  
 405 410 415  
 Pro Gly Leu Arg Leu Pro Asp Ser Asn Ile Asp Tyr Pro Met Ala Thr  
 420 425 430  
 Gly Asp Gly Ala Lys Thr Leu Ala Ile His Val Lys Ala Leu Thr Ala  
 435 440 445  
 Asp Ser Ile Arg Ile Thr Trp Lys Ala Thr Leu Pro Ala Ser Ser Phe  
 450 455 460  
 Arg Leu Ser Trp Leu Arg Leu Gly His Ser Pro Ala Val Gly Ser Ile  
 465 470 475 480  
 Thr Glu Thr Leu Val Gln Gly Asp Lys Thr Glu Tyr Leu Leu Thr Ala  
 485 490 495  
 Leu Glu Pro Lys Ser Thr Tyr Ile Ile Cys Met Val Thr Met Glu Thr  
 500 505 510  
 Ser Asn Ala Tyr Val Ala Asp Glu Thr Pro Val Cys Ala Lys Ala Glu  
 515 520 525  
 Thr Ala Asp Ser Tyr Gly Pro Thr Thr Thr Leu Asn Gln Glu Gln Asn  
 530 535 540  
 Ala Gly Pro Met Ala Ser Leu Pro Leu Ala Gly Ile Ile Gly Gly Ala  
 545 550 555 560

CURA 85 CON Sequence Listing 08\_30\_2004

Val Ala Leu Val Phe Leu Phe Leu Val Leu Gly Ala Ile Cys Trp Tyr  
565 570 575

Val His Gln Ala Gly Glu Leu Leu Thr Arg Glu Arg Ala Tyr Asn Arg  
580 585 590

Gly Ser Arg Glu Lys Asp Asp Tyr Met Glu Ser Gly Thr Lys Lys Asp  
595 600 605

Asn Ser Ile Leu Glu Ile Arg Gly Pro Gly Leu Gln Met Leu Pro Ile  
610 615 620

Asn Pro Tyr Arg Ala Lys Glu Glu Tyr Val Val His Thr Ile Phe Pro  
625 630 635 640

Ser Asn Gly Ser Ser Leu Cys Lys Ala Thr His Thr Ile Gly Tyr Gly  
645 650 655

Thr Thr Arg Gly Tyr Arg Asp Gly Gly Ile Pro Asp Ile Asp Tyr Ser  
660 665 670

Tyr Thr

<210> 61  
<211> 246  
<212> PRT  
<213> Homo sapiens

<400> 61  
Pro Met Ala Thr Gly Asp Gly Ala Lys Thr Leu Ala Ile His Val Lys  
1 5 10 15

Ala Leu Thr Ala Asp Ser Ile Arg Ile Thr Trp Lys Ala Thr Leu Pro  
20 25 30

Ala Ser Ser Phe Arg Leu Ser Trp Leu Arg Leu Gly His Ser Pro Ala  
35 40 45

Val Gly Ser Ile Thr Glu Thr Leu Val Gln Gly Asp Lys Thr Glu Tyr  
50 55 60

Leu Leu Thr Ala Leu Glu Pro Lys Ser Thr Tyr Ile Ile Cys Met Val  
65 70 75 80

Thr Met Glu Thr Ser Asn Ala Tyr Val Ala Asp Glu Thr Pro Val Cys  
85 90 95

Ala Lys Ala Glu Thr Ala Asp Ser Tyr Gly Pro Thr Thr Thr Leu Asn  
100 105 110

Gln Glu Gln Asn Ala Gly Pro Met Ala Ser Leu Pro Leu Ala Gly Ile  
115 120 125

Ile Gly Gly Ala Val Ala Leu Val Phe Leu Phe Leu Val Leu Gly Ala  
130 135 140

Ile Cys Trp Tyr Val His Gln Ala Gly Glu Leu Leu Thr Arg Glu Arg  
145 150 155 160

Ala Tyr Asn Arg Gly Ser Arg Lys Lys Asp Asp Tyr Met Glu Ser Gly  
165 170 175

CURA 85 CON Sequence Listing 08\_30\_2004

Thr Lys Lys Asp Asn Ser Ile Leu Glu Ile Arg Gly Pro Gly Leu Gln  
180 185 190  
Met Leu Pro Ile Asn Pro Tyr Arg Ala Lys Glu Glu Tyr Val Val His  
195 200 205  
Thr Ile Phe Pro Ser Asn Gly Ser Ser Leu Cys Lys Ala Thr His Thr  
210 215 220  
Ile Gly Tyr Gly Thr Thr Arg Gly Tyr Arg Asp Gly Gly Ile Pro Asp  
225 230 235 240  
Ile Asp Tyr Ser Tyr Thr  
245

<210> 62  
<211> 378  
<212> PRT  
<213> Homo sapiens

<400> 62  
Ile Ser Asn Asn Gln Leu Arg Met Leu Thr Gln Gly Val Phe Asp Asn  
1 5 10 15  
Leu Ser Asn Leu Lys Gln Leu Thr Ala Arg Asn Asn Pro Trp Phe Cys  
20 25 30  
Asp Cys Ser Ile Lys Trp Val Thr Glu Trp Leu Lys Tyr Ile Pro Ser  
35 40 45  
Ser Leu Asn Val Arg Gly Phe Met Cys Gln Gly Pro Glu Gln Val Arg  
50 55 60  
Gly Met Ala Val Arg Glu Leu Asn Met Asn Leu Leu Ser Cys Pro Thr  
65 70 75 80  
Thr Thr Pro Gly Leu Pro Leu Phe Thr Pro Ala Pro Ser Thr Ala Ser  
85 90 95  
Pro Thr Thr Gln Pro Pro Thr Leu Ser Ile Pro Asn Pro Ser Arg Ser  
100 105 110  
Tyr Thr Pro Pro Thr Pro Thr Thr Ser Lys Leu Pro Thr Ile Pro Asp  
115 120 125  
Trp Asp Gly Arg Glu Arg Val Thr Pro Pro Ile Ser Glu Arg Ile Gln  
130 135 140  
Leu Ser Ile His Phe Val Asn Asp Thr Ser Ile Gln Val Ser Trp Leu  
145 150 155 160  
Ser Leu Phe Thr Val Met Ala Tyr Lys Leu Thr Trp Val Lys Met Gly  
165 170 175  
His Ser Leu Val Gly Gly Ile Val Gln Glu Arg Ile Val Ser Gly Glu  
180 185 190  
Lys Gln His Leu Ser Leu Val Asn Leu Glu Pro Arg Ser Thr Tyr Arg  
195 200 205  
Ile Cys Leu Val Pro Leu Asp Ala Phe Asn Tyr Arg Ala Val Glu Asp

210

215

220

Thr Ile Cys Ser Glu Ala Thr Thr His Ala Ser Tyr Leu Asn Asn Gly  
 225 230 235 240  
 Ser Asn Thr Ala Ser Ser His Glu Gln Thr Thr Ser His Ser Met Gly  
 245 250 255  
 Ser Pro Phe Leu Leu Ala Gly Leu Ile Gly Gly Ala Val Ile Phe Val  
 260 265 270  
 Leu Val Val Leu Leu Ser Val Phe Cys Trp His Met His Lys Lys Gly  
 275 280 285  
 Arg Tyr Thr Ser Gln Lys Trp Lys Tyr Asn Arg Gly Arg Arg Lys Asp  
 290 295 300  
 Asp Tyr Cys Glu Ala Gly Thr Lys Lys Asp Asn Ser Ile Leu Glu Met  
 305 310 315 320  
 Thr Glu Thr Ser Phe Gln Ile Val Ser Leu Asn Asn Asp Gln Leu Leu  
 325 330 335  
 Lys Gly Asp Phe Arg Leu Gln Pro Ile Tyr Thr Pro Asn Gly Gly Ile  
 340 345 350  
 Asn Tyr Thr Asp Cys His Ile Pro Asn Asn Met Arg Tyr Cys Asn Ser  
 355 360 365  
 Ser Val Pro Asp Leu Glu His Cys His Thr  
 370 375

&lt;210&gt; 63

&lt;211&gt; 338

&lt;212&gt; PRT

&lt;213&gt; Gallus gallus

&lt;400&gt; 63

Val His Ser Val Trp Thr Arg Thr Val Arg Gln Val Tyr Asn Glu Leu  
 1 5 10 15  
 Asp Pro Glu His Trp Ser His Tyr Thr Phe Glu Cys Pro Gln Glu Cys  
 20 25 30  
 Phe Cys Pro Pro Ser Phe Pro Asn Ala Leu Tyr Cys Asp Asn Lys Gly  
 35 40 45  
 Leu Lys Glu Ile Pro Ala Ile Pro Ala Arg Ile Trp Tyr Leu Tyr Leu  
 50 55 60  
 Gln Asn Asn Leu Ile Glu Thr Ile Ser Glu Lys Pro Phe Val Asn Ala  
 65 70 75 80  
 Thr His Leu Arg Trp Ile Asn Leu Asn Lys Asn Lys Ile Thr Asn Asn  
 85 90 95  
 Gly Ile Glu Ser Gly Val Leu Ser Lys Leu Lys Arg Leu Leu Tyr Leu  
 100 105 110  
 Phe Leu Glu Asp Asn Glu Leu Glu Glu Val Pro Ala Pro Leu Pro Val  
 115 120 125



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Gly Leu Glu Gln Leu Arg Leu Ala Arg Asn Lys Ile Ser Arg Ile Pro  
130 135 140

Glu Gly Val Phe Ser Asn Leu Glu Asn Leu Thr Met Leu Asp Leu His  
145 150 155 160

Gln Asn Asn Leu Leu Asp Ser Ala Leu Gln Ser Asp Thr Phe Gln Gly  
165 170 175

Leu Asn Ser Leu Met Gln Leu Asn Ile Ala Lys Asn Ser Leu Lys Lys  
180 185 190

Met Pro Leu Ser Ile Pro Ala Asn Thr Leu Gln Leu Phe Leu Asp Asn  
195 200 205

Asn Ser Ile Glu Val Ile Pro Glu Asn Tyr Phe Ser Ala Ile Pro Lys  
210 215 220

Val Thr Phe Leu Arg Leu Asn Tyr Asn Lys Leu Ser Asp Asp Gly Ile  
225 230 235 240

Pro Pro Asn Gly Phe Asn Val Ser Ser Ile Leu Asp Leu Gln Leu Ser  
245 250 255

His Asn Gln Leu Thr Lys Ile Pro Pro Ile Asn Ala His Leu Glu His  
260 265 270

Leu His Leu Asp His Asn Arg Ile Lys Ser Val Asn Gly Thr Gln Ile  
275 280 285

Cys Pro Val Ser Ile Ala Val Ala Glu Asp Tyr Gly Leu Tyr Gly Asn  
290 295 300

Ile Pro Arg Leu Arg Tyr Leu Arg Leu Asp Gly Asn Glu Ile Gln Pro  
305 310 315 320

Pro Ile Pro Leu Asp Ile Met Ile Cys Phe Gln Leu Leu Gln Ala Val  
325 330 335

Val Ile

<210> 64  
<211> 326  
<212> PRT  
<213> Bos taurus

<400> 64

Pro Tyr Glu Pro Tyr Pro Thr Gly Glu Glu Gly Pro Ala Tyr Ala Tyr  
1 5 10 15

Gly Ser Pro Pro Gln Pro Glu Pro Arg Asp Cys Pro Gln Glu Cys Asp  
20 25 30

Cys Pro Pro Asn Phe Pro Thr Ala Met Tyr Cys Asp Asn Arg Asn Leu  
35 40 45

Lys Tyr Leu Pro Phe Val Pro Ser Arg Met Lys Tyr Val Tyr Phe Gln  
50 55 60

Asn Asn Gln Ile Ser Ser Ile Gln Glu Gly Val Phe Asp Asn Ala Thr  
65 70 75 80

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Gly Leu Leu Trp Ile Ala Leu His Gly Asn Gln Ile Thr Ser Asp Lys  
                             85                            90                            95  
 Val Gly Lys Lys Val Phe Ser Lys Leu Arg His Leu Glu Arg Leu Tyr  
                             100                            105                            110  
 Leu Asp His Asn His Leu Thr Arg Ile Pro Ser Pro Leu Pro Arg Ser  
                             115                            120                            125  
 Leu Arg Glu Leu His Leu Asp His Asn Gln Ile Ser Arg Val Pro Asn  
                             130                            135                            140  
 Asn Ala Leu Glu Gly Leu Glu Asn Leu Thr Ala Leu Tyr Leu His His  
                             145                            150                            155                            160  
 Glu Ile Gln Glu Val Gly Ser Ser Met Lys Gly Leu Arg Ser Leu Ile  
                             165                            170                            175  
 Leu Leu Asp Leu Ser Tyr Asn His Leu Arg Lys Val Pro Asp Gly Leu  
                             180                            185                            190  
 Pro Ser Ala Leu Glu Gln Leu Tyr Leu Glu His Asn Asn Val Phe Ser  
                             195                            200                            205  
 Val Pro Asp Ser Tyr Phe Arg Gly Ser Pro Lys Leu Leu Tyr Val Arg  
                             210                            215                            220  
 Leu Ser His Asn Ser Leu Thr Asn Asn Gly Leu Ala Ser Asn Thr Phe  
                             225                            230                            235                            240  
 Asn Ser Ser Ser Leu Leu Glu Leu Asp Leu Ser Tyr Asn Gln Leu Gln  
                             245                            250                            255  
 Lys Ile Pro Pro Val Ser Thr Asn Leu Glu Asn Leu Tyr Leu Gln Gly  
                             260                            265                            270  
 Asn Arg Ile Asn Glu Phe Ser Ile Ser Ser Phe Cys Thr Val Val Asp  
                             275                            280                            285  
 Val Met Asn Phe Ser Lys Leu Gln Val Gln Arg Leu Asp Gly Asn Glu  
                             290                            295                            300  
 Ile Lys Arg Ser Ala Met Pro Ala Asp Ala Pro Leu Cys Leu Arg Leu  
                             305                            310                            315                            320  
 Ala Ser Leu Ile Glu Ile  
                             325